IAP7 Rec'd PCT/PTO 14 JUN

O-1390 (Rev. 07-2005) Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER 03-903-US

U.S. APPLICATION NO. (lifenomy), see 37 CFR 1.5)

Y DATE CLAIMED 17 December 2003 (17.12.03)

PCT/US2004/042358 TITLE OF INVENTION

SINGLE MOLECULE DETECTION USING MOLECULAR MOTORS

APPLICANT(S) FOR DO/EO/US

INTERNATIONAL APPLICATION NO.

Liyan HE; Wayne FRASCH

Applican	it herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:
1. →⊠	This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.

INTERNATIONAL FILING DATE

17 December 2004 (17.12.04)

This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items

(5), (6), (9) and (21) indicated below. The US has been elected (Article 3).

冈 A copy of the International Application as filed (35 U.S.C. 371 (c)(2))

is attached hereto (required only if not communicated by the International Bureau).

has been communicated by the International Bureau.

is not required, as the application was filed in the United States Receiving Office (RO/US).

An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).

is attached hereto.

has been previously submitted under 35 U.S.C. 154(d)(4).

7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))

are attached hereto (required only if not communicated by the International Bureau),

b. have been communicated by the International Bureau.

have not been made; however, the time limit for making such amendments has NOT expired.

have not been made and will not be made.

An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).

An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4))

10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern documents) or information included:

11. 🔯 An Information Disclosure Statement under 37 CFR 1.97 and 1.98.

An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.

A preliminary amendment.

14. X An Application Data Sheet under 37 CFR 1.76.

A substitute specification.

16. A power of attorney and/or change of address letter.

17. 🛛 A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.

18. 🛛 A second copy of the published International Application under 35 U.S.C. 154(d)(4).

19. I I A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/582820			INTERNATIONAL PCT/US2004/0423	APPLICATION NO. 58	ATTORNEY'S DOCKET NUMBER 03-903-US				
20. Other items or information: Statement under WIPO Standard ST.25 and 37 C.F.R. 1.821-1.825 Copy of the International Search Report and Written Opinion of the ISA/EP Return Receipt Postcard									
The follo	wing fees have be	en submitted			CALCULATIONS	PTO USE ONLY			
21. A Basic	<u> </u>				\$ 300.00				
22. j 🗵 Exam	ination fee (37 CFI	R 1.492(c))							
	ion prepared by IS JS indicates all cla s	\$ 200.00							
If the written opinion IPEA/US Search fee (37 C Internation International Sea previously	h fee (37 CFR 1.49 on prepared by ISA indicates all claims FR 1.445(a)(2)) ha nal Searching Autl rch Report prepare y communicated to	\$ 400.00							
	TOTAL OF 21, 2	2 and 23 =			\$ 900.00				
sequence electronic	e for specification a listing in compliar medium) 37 CFR s \$250 for each ad								
Total Sheets	Extra Sheets	Sheets Number of each additional 50 or fraction thereof (round up to a whole number)							
-100 =	/50 =			x \$250	 				
Surcharge of \$13	0.00 for furnishing commencement of	\$,						
CLAIMS	NUME	BER FILED	NUMBER EXTRA	RATE	\$				
Total claims	7	-20 =	0	x \$50	\$	·			
Independent cla	ims 1	-3 =	0	X \$200	\$				
MULTIPLE DEPE	NDENT CLAIM(S) (if applicable)	·	+ \$360	\$				
			TOTAL OF ABO	VE CALCULATIONS =	\$ 900.00				
Applicant c	laims small entity s	450.00							
	 	\$ 450.00							
	\$130.00 for furnis ate (37 CFR 1.492	\$							
		\$	450.00						
	the enclosed assignment	\$							
TOTAL FEES ENCLOSED =					\$	450.00			
					Amount to be refunded:	\$			
					Amount to be	\$			

charged:

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	here an appropriate time limit under 37 CFF ted to restore the International Application t		et, a petition to revive (37 CFR 1.137(a) or (b)) must be filed				
• SEND AL	L CORRESPONDENCE TO:		Au fles				
David S MCDON 300 Sou	. HARPER INELL BOEHNEN HULBERT & BERO Ith Wacker Drive, Suite 3100 , IL 60606	GHOFF LLP	David S. Harper NAME 42,636 REGISTRATION NUMBER				
	312 913 0001 2 913 0002		June 14, 2006 DATE				

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) (Case No. 03-903-US)

In the Application of:)				
	Liyan HE et al.					
U.S Application No.: TBA International Appln No.: PCT/US2004/042358)				
International Filing Date:	17 December 2004)				
For:	Single Molecule Detection Using Molecular Motors)				
Mail Stop PCT Commissioner for Paten PO Box 1450 Alexandria, VA 22313-1		BY "EXPRESS MAIL"				
Sir:						
Date of Deposit: June 14, 2006 "Express Mail" Mailing Label Number: EV839411905US						
Attached Paper or Fee:						
1) Transmittal to the DO/EO/US (3 sheets) 2) Statement under WIPO Standard ST.25 and 37 CFR 1.821-1.825 3) Application Data Sheet (2 sheets) 4) Copy of the International Search Report and Written Opinion of the ISA/EP (13						

Preliminary Amendment (4 sheets) 6)

- Second copy of the published International Application 7)
- 8) Computer-readable form of the Sequence Listing (1 diskette)

IDS Form PTO/SB/08 (2 sheets) and copies of 2 cited references

9) **Filing Fee Check**

5)

10) **Return Receipt Postcard**

I hereby certify that I directed that the attached paper or fee be deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 C.F.R. 1.10 on the date indicated above and be addressed to Mail Stop PCT, Commissioner for Patents, PO Box 1450, Alexandria VA 22313-1450.